WCM5202

802.11b/g MIMO XR® Wireless MiniPCI Card

The **WCM5202** is an IEEE802.11b/g standard mini PCI card that connects your notebook to a wireless local area. With MRC (Maximal Ratio Combining) technique, The **WCM5202** better expands the transmitting distance and efficiently eliminates wireless connection dead spots compared with normal 802.11b/g products. Moreover, the Burst transmission mode also accelerates the throughput and improves the actual transmission rate.

The **WCM5202** is a very small card that can fit into any notebook, handheld or desktop computer equipped with a Mini PCI (Type III B slot) interface for wireless network applications. It allows you to take full advantage of your notebook's mobility with access to real-time information and online services anytime and anywhere. It slides easily into the MINI PCI expansion slot to enable a wireless connection to your network.

FEATURES

- III-b MiniPCI form factor
- Support 802.11b/g
- 1T2R Architecture, with extended range and dead spot eliminated
- Complete Security Feature - WEP 64/128, WPA, WPA2, 802.1x and 802.11i
- Cisco CCX V1.0, V2.0 and V3.0 Compliance
- Advanced Quality of Service (QoS) - 802.11e, WMM
- International Regulatory Compliance - 802.11d+h
- Bluetooth Co-existence
- Comprehensive OS support:Win98/SE/ME, Win2000, WinXP, WinCE, Linux, MAC OSX
- Linux AP Driver Available
- WiFi and WHQL Certification

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SPECIFICATIONS

Standard	IEEE 802.11b/g Standard
Host Interface	MiniPCI Interface 1.0
Operating Voltage	3.3V ± 5%
Power Requirement	**Power consumption at 11g** **TX:** 455mA **RX:** 317mA
RF Connector Type	3
Frequency Range	2.412GHz-2.4835GHz
Number of Selectable Channels	**USA, Canada (FCC):** 11 channels (2.412GHz~2.462GHz) **Europe (CE):** 13 channels (2.412GHz~2.472GHz) **Japan (TELEC):** 14 channels (2.412GHz~2.4835GHz)
Modulation Technique	**802.11b:** Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK) **802.11g:** Orthogonal frequency division multiplexing
Data Rate	802.11b (11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps) 802.11g (54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps)
Preamble	**802.11b:** Both Short and Long preamble **802.11g:** Long preamble only
Modulation	**11g: Orthogonal Frequency Division Multiplexing (OFDM)** 54Mbps/48Mbps:QAM-64 36Mbps/24Mbps:QAM-16 18Mbps/12Mbps:QPSK 9Mbps/6Mbps:BPSK **11b: Direct Sequence Spread Spectrum (DSSS)** 11Mbps/5.5Mbps:CCk 2Mbps:DQPSK 1Mbps:DBPSK
Security	Hardware-Based Encryption/Decryption Using WEP 64/128, WPA, WPA2, 802.1x and 802.11i
Output Power	54Mbps OFDM: 18~20dBm 11Mbps CCK: 21dBm
Receiver Sensitivity	-79dBm at 54Mpbs, 10% PER <-90dBm at 11Mpbs, 8% PER
Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK
Physical Specifications	**Weight:** 10g **Dimension:** 59.75 (L) x 44.6(W) mm
Environment Specifications	**Operating Temperature:** 0~60℃ ambient temperature **Storage Temperature:** -20~70℃ ambient temperature **Operating humidity:** 90% maximum (non-condensing) **Storage humidity:** 90% maximum (non-condensing)
EMC Certification	FCC Part 15.247 in US

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